



# MATERIAL REPORT

REPORT NUMBER: KK2038

DATE: 11/08/89

**TITLE:** Evaluation of Parker Compounds N0287-70 to the Requirements of AMS7272E.

**PURPOSE:** To provide conformance documentation.

**CONCLUSION:** Parker Compound N0287-70 meets the requirements of AMS7272E.

**Recommended Temperature Range:** -35 to 250F

**Recommended for:** petroleum oils, water (up to 212F),  
Salt & Alkali solutions, weak acids

**Not Recommended for:** highly aromatic fuels, strong acids,  
glycols, ozone, polar solvents

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# REPORT DATA

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<u>ORIGINAL PHYSICAL PROPERTIES</u>	<u>AMS 7272</u> <u>SPECIFICATION</u>	<u>N0287-70</u> <u>2-214 O-RINGS</u>	
Hardness, Duro 'A', pts.	65 - 75	71	
Tensile Strength, psi. min.	1500	2464	
Elongation, % min.	250	335	
Modulus @ 100%, min.	500	524	
Corrosion	Nil	Nil	
Specific gravity	±0.02	1.23	
 <u>ASTM SERVICE FLUID NO. 101</u> <u>(L774), 70 HRS. @ 302°F ± 5°</u>			
Tensile change, % max	-70 or 600 psi, min	881	-64.2
Elongation change, % max	-70	124	-63.9
Volume change, %	0 to +15	+5	
Decomposition	None	None	
Surface tackiness	None	None	
 <u>AROMATIC FUEL RESISTANCE</u> <u>FUEL B, 70 HRS. @ 68 TO 86°F</u>			
Tensile Change, % max	-60	1653	-32.9
Elongation change, % max	-55	248	-25.9
Volume change, %	0 to + 35	+22.8	
 <u>DRY OUT, 38 HRS. @ 158°F ± 2°</u> <u>AFTER 70 HRS IN FUEL B</u>			
Volume change, % max	-10	-2.9	
 <u>DRY HEAT RESISTANCE</u> <u>70 HRS @ 257°F ± 4°</u>			
Tensile change, % max	-25	2505	+1.7
Elongation change, % max	-50	184	-45.1
Bend (Flat)	No cracking or checking	No cracking or checking	
 <u>COMPRESSION SET,</u> <u>70 HRS @ 257°F ± 4%</u>			
% of original deflection, max			
Ring cross section diameter			
0.066 to 0.110 in., incl	85	---	
Over 0.110 in.	75	34.3	
 <u>LOW TEMPERATURE RESISTANCE</u>			
TR-10 point, max	-15°F	-15°F	